



Welcome to AIMS

OVERVIEW

AIMS is Malaysia and South East Asia's leading carrier neutral data centre operator and managed services provider. We provide international class data storage and ancillary services, augmented by an unrivaled platform for interconnectivity.

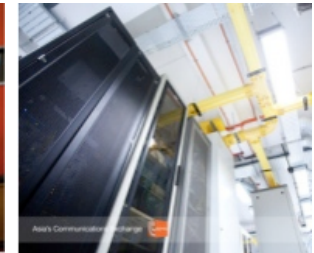
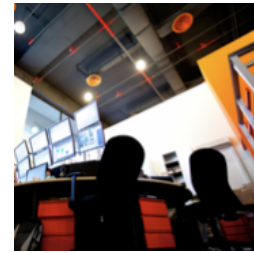
AIMS has the most densely populated communications facility in South East Asia. All domestic telcos and more than 50% foreign carriers are hosted in our data centre. We have over 80% of Malaysia's active service providers residing with us.

Our data centres have been awarded with **ISO 27001:2005** standard for security management and **ISO 9001:2008** standard for business quality management.

FACILITY OVERVIEW

SITE SPECIFICATIONS

Grd Floor	: 2,500 sq ft
Mezz Floor	: 2,500 sq ft
Level 1	: 6,500 sq ft
Level 2	: 6,500 sq ft
Level 3	: 6,500 sq ft
Level 4	: 6,500 sq ft
Level 5	: 6,500 sq ft



Building Floor Information

Floor Height	3.8 meter, slab to slab
Floor Load	5 k-N per square meter
Command Centre & Security Department	<p>Command Centre is located at Ground floor.</p> <p>Two levels of security control: 1st level : access to the building compound 2nd level: access to the data centre</p>

Building Information

Location	Menara AIMS, Changkat Raja Chulan, Kuala Lumpur
Building Information	<p>Single block 18-storey commercial building and 3 basement parking</p> <p>The building consists of 7-storey data centre floors and 3 sub-floor for the installation of mechanical and electrical facilities and power plants</p>
Power Supplies	11kV HT power feed from TNB power grid
Power Capacity	5 MVA
Telecommunication Manhole	<p>Dual manhole for the incoming telecommunication fibre path</p> <p>Diverse fibre trunking from manhole sub-duct to the data centre floor</p>
Antenna, Wireless or Microwave Equipment Space at Rooftop	<p>Yes</p> <p>The UPS and EPG backup power are provided to rooftop IDU Room</p> <p>Dedicated grounding system for the ODU body earth is installed at the rooftop. This earth point links to existing building basement earth chamber</p> <p>Multimode fibre backbone links between rooftop IDU Room to the data centre</p>

Data Centre Specification

Critical Load Power Density	100 watts per square feet
Cooling Density	120 watts per square feet
Cabinet Dimension	42RU 600mm (width) x 1000mm (depth)
Rack Arrangement Space Configuration	Hot aisle and cold aisle configuration:
- Cold Aisle Spacing	1,200mm
- Hot Aisle Spacing	1,000mm
Critical Load Power Distribution	One (1) primary and one (1) redundant final sub-circuits from separate PDU within the data centre
Lighting	500lux light density at the raised floor

Raised Floor System

Gross Raised Floor Area per Floor	6,500 square feet
Usable Raised Floor Area	5,000 square feet
RAF Height	600mm raised floor height
RAF Type	HPL wood-core rigid grid system
Concentrated Load	4.5 kN
Uniform Load	12 K-N per square meter
Underfloor Insulation	Thermal isolation trocellin polyethylene foam
Perforated Panel	Perforated panels are placed at the cold aisle

Uninterruptible Power Supply (UPS) System

UPS System	True-online Double Conversion Static UPS DRUPS is installed to protect data centre critical loads
Static UPS Capacity	1200kVA and 800kVA
Total Static UPS Capacity	2 x 2000kVA
UPS Battery Autonomy	10 minutes at full load
DRUPS Capacity	1100kVA
UPS Redundancy	2N configuration/ N+1 configuration
UPS External Bypass	Provided
Synchronization	Load bus synchronization is installed



Earthing System

“Dirty” Earth	<p>“Dirty” and “Clean” earths are available at the data centre area</p> <p>The “Dirty” (electrical) earth system is linked to existing building electrical earth</p> <p>All electrical earth / bonding is connected to the main “Dirty” earth bar including the raised floor system pedestals bonding</p>
“Clean” Earth	<p>“Clean” earth point is provided to each rack location under the raised floor</p>

Power Distribution Unit (PDU)

PDU Configuration	Each PDU receives one 415Vac protected power supply from UPS output panel within the data centre area PDU is equipped with Digital Power Meter, KWH Meter. The power meters provide the electrical consumption reading of the PDU through the KWH meter or digital meter via BMS interface
Isolation Transformer	K-13/K-20 Rated Isolation Transformer is included in each PDU
PDU Capacity	200kVA/225kVA
Circuit per Cabinet	For 2N configuration One (1) primary and one (1) redundant final circuit from separate PDU. STS backup is provided at the primary source in the PDU level.
Circuit Protection	Each final circuit is individually protected by MCB and isolation transformer at PDU
Circuit Breaker Sizes	Single phase 20A, 30A single phase and three phase power supplies are available from the PDU
AC Voltage at Cabinet Level	240V/ 50 Hz 415V/50 Hz
48V Direct Current (DC) Plant	2N configuration. The DC plant is supported by EPG
Direct Current (DC) Plant Capacity	2 x 700A

Emergency Power Generator (EPG)

EPG Plant	2 x 2MVA backup diesel generators 2 x 1MVA backup diesel generators
Fuel Tank	External fuel tanks able to support EPG plant for 24 hours at full load
Supported Services	Data centre, CRACs, chillers, lighting and general services within data centre areas

Construction / Partition

Ceiling	No false ceilings for data centre areas
Partitions	2 hours fire rated partition for each IG55 fire zone
Cabling System	Two tier overhead structured cabling system and infrastructure





Cooling

Chiller System	Air cooled, chilled water based ACMV system water is installed
Chiller Redundancy	N+1 redundancy for chiller unit
Chiller System Support	Chiller system is supported by EPG Plant and Dynamic UPS System
Chiller Pipe	Dual chilled water piping system from chiller plant to the data centre floor and ring chilled water circuit within the data centre floor
CRAC System	Down flow configuration computer room air condition unit
CRAC Redundancy	CRAC system in the same farm area are configured in N + 1 and equipped with an automatic changeover controller
CRAC Power Redundancy	Each CRAC is connected to two power sources from different ACMV panel via Automatic Transfer Switch (ATS)
CRAC System Support	CRAC system is supported by EPG Plant
Supplement Cooling	Overhead supplement cooling is installed to support high density load. Refrigerant gas pipes runs from the supplement cooling distribution to the overhead supplement cooling
Temperature Control	22 Degree +/- 2°
Humidity Control	50 RH +/- 10 RH
Containment	Cold aisle containment with access control is available

Water Leakage Detection

Water Leakage Detection	Water leak detection system is installed in data centre area
Leak Detection Type	Resistive leak tape (cable) monitoring leakage at any point along the perimeter of the data centre area and surrounding the CRACs



Fire Detection And Suppression System

Fire Suppression	Inert Gas IG-55 fire suppression system is installed in the data centre areas
IG-55	IG-55 Gas suppression system is installed above and under the raised access floor in the data centre areas
Fire Alarm and Detection System	Two stages of alarms are implemented for IG-55 heat and smoke detection system
HSSD System	HSSD system is implemented above and under the raised floor and operated independently from the fire alarm system

Security

Presence	24 x 7 security team
Personnel	Card access system is used at all entrances and exits of data centre, common areas, building emergency staircases and M&E rooms
CCTV	Multiple CCTVs cameras with offsite archival CCTVs are installed at the entrance and corridors within the data centre and plant areas Every row of racks is monitored by CCTVs
Backup/ Recording	90 days storage period

Building Management System (BMS)

System	An integrated Building Management System (BMS) is installed to monitor and control all facilities within AIMS' data centre
Monitoring	<ul style="list-style-type: none"> - Automatic control and monitoring of the environmental control system - Monitoring of high tension supplies - Monitoring of UPS and backup generator systems - Monitoring of switchboard, PDU, fans, CRAC units - Monitoring of fire safety system - Monitoring of water leak detection - Monitoring of room temperature and RH

Data Centre Accreditations

Data Centre	ISO/ IEC 27001: 2005 Information Security Management System certified ISO 9001: 2008 Quality Management System certified
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For further enquiries, please email us at sales@aims.com.my or fax to 03-2031 8948

LOCATION MAP

